AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (Original) A freeze-dried interferon-γ composition for transpulmonary administration having the following properties (i) to (iv):
- (i) containing at least one hydrophobic stabilizer selected from the group consisting of hydrophobic amino acids, dipeptides of hydrophobic amino acids, tripeptides of hydrophobic amino acids and derivatives of hydrophobic amino acids and salts thereof; at least one hydrophilic stabilizer selected from the group consisting of hydrophilic amino acids, dipeptides of hydrophilic amino acids, tripeptides of hydrophilic amino acids, derivatives of hydrophilic amino acids and salts thereof; and interferon-γ
 - (ii) a non-powder cake-like form;
 - (iii) a disintegration index of 0.015 or more; and
- (iv) becoming fine particles having a mean particle diameter of 10 microns or less or a fine particle fraction of 10% or more upon receipt of an air impact having an air speed of at least 1 m/sec and an air flow rate of at least 17 ml/sec.
- 2. (Original) The freeze-dried interferon-γ composition according to Claim 1, wherein the hydrophilic stabilizer is at least one selected from the group consisting of basic amino acids, neutral hydroxy amino acids, dipeptides of these amino acids, tripeptides of these amino acids, derivatives of these amino acids and salts thereof.
- 3. (Original) The freeze-dried interferon-γ composition according to Claim
 1, wherein the hydrophilic stabilizer is at least one selected from the group consisting of

basic amino acids, dipeptides of basic amino acids, tripeptides of basic amino acids, derivatives of basic amino acids and salts thereof.

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- 4. (Original) The freeze-dried interferon-γ composition according to Claim 1, wherein the hydrophilic stabilizer is at least one selected from the group consisting of neutral hydroxy amino acids, dipeptides of neutral hydroxy amino acids, tripeptides of neutral hydroxy amino acids, derivatives of neutral hydroxy amino acids and salts thereof.
- 5. (Original) The freeze-dried interferon-γ composition according to Claim 1, wherein the hydrophilic stabilizer is at least one selected from the group consisting of arginine, lysine, histidine, threonine, dipeptide of these amino acids, tripeptides of these amino acids, derivatives of these amino acids and salts thereof.
- 6. (Original) The freeze-dried interferon-γ composition according to Claim 1, wherein the hydrophobic stabilizer is at least one selected from the group consisting of hydrophobic amino acids, dipeptides of hydrophobic amino acids, tripeptides of hydrophobic amino acids, derivatives of hydrophobic amino acids and salts thereof.
- (Original) The freeze-dried interferon-γ composition according to Claim
 wherein the hydrophobic stabilizer is at least one selected from the group consisting
 of valine, leucine, isoleucine, phenylalanine and salts thereof.
- 8. (Original) The freeze-dried interferon-γ composition according to Claim 1, wherein the content of the hydrophilic stabilizer is 1 to 500 parts by weight per 100 parts by weight of the hydrophobic stabilizer.
- 9. (Original) The freeze-dried interferon-γ composition according to Claim
 1, wherein the disintegration index is 0.02 or more.

- 10. (Original) The freeze-dried interferon-γ composition according to Claim
 1, wherein the disintegration index is from 0.015 to 1.5.
- 11. (Original) The freeze-dried interferon-γ composition according to Claim 1, becoming fine particles having a mean particle diameter of 10 microns or less or a fine particle fraction of 10% or more upon receipt of an air impact having an air speed of at least 2 m/sec and an air flow rate of at least 17 ml/sec.
- 12. (Original) The freeze-dried interferon-γ composition according to Claim 1, becoming fine particles having a mean particle diameter of 10 microns or less or a fine particle fraction of 10% or more upon receipt of an air impact having an air speed of at least 1 m/sec and an air flow rate of at least 20 ml/sec.
- 13. (Original) The freeze-dried interferon-γ composition according to Claim 1, becoming fine particles having a mean particle diameter of 5 microns or less or a fine particle fraction of 20% or more upon receipt of the air impact.
- 14. (Original) The freeze-dried interferon-γ composition for transpulmonary administration according to Claim 1, having the following properties (i) to (iv):
- (i) containing at least one hydrophobic stabilizer selected from the group consisting of hydrophobic amino acids, dipeptides of hydrophobic amino acids, tripeptides of hydrophobic amino acids, derivatives of hydrophobic amino acids and salts thereof; at least one hydrophilic stabilizer selected from the group consisting of hydrophilic amino acids, dipeptides of hydrophilic amino acids, tripeptides of hydrophilic amino acids, derivatives of hydrophilic amino acids and salts thereof; and interferon- γ ;
 - (ii) a non-powder cake-like form;
 - (iii) a disintegration index of 0.015 to 1.5; and

- (iv) becoming fine particles having a mean particle diameter of 10 microns or less or a fine particle fraction of 10% or more upon receipt of an air impact having an air speed in the range of 1 to 300 m/sec and an air flow rate in the range of 17 ml/sec to 15 L/sec.
- 15. (Currently Amended) A dry powder interferon-γ inhalation system for transpulmonary administration, using a combination of:
- (1) a vessel housing the freeze-dried interferon-γ composition for transpulmonary
 administration according to any of Claims Claim 1 [[to 14]]; and
- (2) a device comprising means capable of applying an air impact having an air speed of at least 1 m/sec and an air flow rate of at least 17 ml/sec to the freeze-dried composition in said vessel, and means for discharging the powder-form freeze-dried composition that has been made into fine particles.
- 16. (Original) The dry powder interferon-γ inhalation system for transpulmonary administration according to Claim 15, wherein the vessel and the device are used in combination at the time of inhalation.
- 17. (Original) The dry powder interferon-γ inhalation system for transpulmonary administration according to Claim 15, wherein the device is:
- i) a dry powder inhaler for transpulmonary, administration, being a device used for making a freeze-dried composition that has been housed in non-powder form in a vessel into fine particles, and administering the resulting fine particles to a user by inhalation,

comprising a needle part having an air jet flow path, a needle part having a discharge flow path, air pressure-feeding means for feeding air into the air jet flow path

of said needle part, and an inhalation port that communicates with the discharge flow path of said needle part,

and characterized by being constituted such that a stopper that seals up said vessel is pierced by said needle parts, thus communicating the air jet flow path and the discharge flow path with the inside of said vessel, and air is jetted into said vessel through said air jet flow path using said air pressure-feeding means, thus making said freeze-dried composition into fine particles by the impact of the jetted air, and discharging the fine particles obtained from the inhalation port via said discharge flow path, or

ii) a dry powder inhaler for transpulmonary administration, being a device used for making a freeze-dried composition that has been housed in non-powder form in a vessel into fine particles, and administering the resulting fine particles to a user by inhalation,

comprising a needle part having a suction flow path, a needle part having an air introduction flow path, and an inhalation port that communicates with said suction flow path,

and characterized by being constituted such that, in a state in which a stopper sealing up said vessel has been pierced by said needle parts, through the inhalation pressure of the user, air in said vessel is inhaled from said inhalation port, and at the same time outside air flows into said vessel, at a negative pressure, through said air introduction flow path, and as a result said freeze-dried composition is made into fine particles by the impact of the air flowing in, and the fine particles obtained are discharged from the inhalation port through said suction flow path.

- 18. (Currently Amended) [[The]] <u>A</u> dry powder interferon-γ inhalation system for transpulmonary administration according to Claim 15, using a combination of:
- (1) containing a vessel housing the freeze-dried interferon-γ composition for transpulmonary administration according to Claim 14; and
- (2) a device comprising means capable of applying said air impact to the freezedried composition in said vessel, and means for discharging the powder-form freezedried composition that has been made into fine particles.
- 19. (Currently Amended) A method of manufacturing a dry powdered interferon-γ preparation for transpulmonary administration, comprising:

introducing air into a vessel to apply to a freeze-dried composition containing a single dose of interferon-γ according to any of Claims claim 1 [[to 14]] an air impact having an air speed of at least 1 m/sec and an air flow rate of at least 17 ml/sec using a device capable of applying said air impact to the freeze-dried composition in the vessel,

thereby making said freeze-dried composition into fine particles having a mean particle diameter of 10 microns or less or a fine particle fraction of 10% or more.

- 20. (Original) The method of manufacturing a dry powdered interferon-γ preparation for transpulmonary administration according to Claim 19, wherein the fine particles prepared have a mean particle diameter of 5 microns or less or a fine particle fraction of 20% or more.
- 21. (Original) The method of manufacturing a dry powdered interferon-γ preparation for transpulmonary administration according to Claim 19, carried out by using a device having means capable of applying an air impact having an air speed of

at least 2m/sec and an airflow rate of at least 17ml/sec to the freeze-dried composition in the vessel, and introducing air having the air impact into the vessel housing the freeze-dried composition.

22. (Currently Amended) [[The]] <u>A</u> method of manufacturing a dry powdered interferon-γ preparation for transpulmonary administration according to Claim-19, comprising:

introducing air into a vessel to apply to a freeze-dried composition containing a single dose of interferon-γ according to Claim 14 an air impact having an air speed of 1 to 300 m/sec and an air flow rate of at least 17 ml/sec to 15L/sec using a device capable of applying said air impact to the freeze-dried composition in the vessel,

thereby making said freeze-dried composition into fine particles having a mean particle diameter of 10 microns or less or a fine particle fraction of 10% or more.

23. (Currently Amended) A transpulmonary administration method comprising:

making the freeze-dried interferon-γ composition for transpulmonary administration containing a single dose of interferon-γ according to any of Claims claim 1 [[to 14]] into fine particles having a mean particle diameter of 10 microns or less or a fine particle fraction of 10% or more by applying an air impact having an air speed of at least 1 m/sec and an air flow rate of at least 17 ml/sec to the freeze-dried composition at the time of use, and

administering the resulting fine particle powder to a user by inhalation.

24. (Original) The transpulmonary administration method according to Claim 23, wherein the freeze-dried interferon-γ composition for transpulmonary

administration is housed in a vessel, and the fine particle powder are made using a device comprising means capable of applying the air impact to the freeze-dried composition in the vessel and means for discharging the resulting fine particle powder-form freeze-dried composition out of the vessel.

25-27. (Cancelled).